

GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS

RAJYA SABHA
UNSTARRED QUESTION NO. 2994
ANSWERED ON 20.12.2024

PROMOTION OF ENVIRONMENTALLY SUSTAINABLE PRACTICES

2994 SHRI KESRIDEVSINH JHALA:

Will the Minister of RAILWAYS be pleased to state:

the manner in which Government is promoting environmentally sustainable practices such as electrification, renewable energy adoption, and eco-friendly waste management across the railway network?

ANSWER

MINISTER OF RAILWAYS, INFORMATION & BROADCASTING AND
ELECTRONICS & INFORMATION TECHNOLOGY
(SHRI ASHWINI VAISHNAW)

Indian Railways (IR) has taken up electrification of Broad Gauge (BG) Railway lines in mission mode. As part of this mission, Electrification carried out during 2014-24 and before 2014 is as under:

Period	Route Kilometer
Before 2014 (about 60 years)	21,801
2014-24	44,199

At present, about 97% of the total BG network of the Indian Railways has been electrified.

About 480 Mega Watt (MW) of solar power plant (both rooftop and land) and around 103 Mega Watt (MW) of wind power plants have been commissioned over Indian Railways.

In addition to above, Indian Railways has taken various initiatives to promote environment friendly practices. Some of them are as under:-

- Conversion of End on Generation (EOG) trains into Head on Generation (HOG) trains to reduce noise, air pollution and diesel consumption.
- Introduction of 3-phase propulsion system with regenerative braking.
- Provision of energy efficient Light Emitting Diode (LED) lighting in all Railway installations including stations, service buildings, residential quarters and coaches for reduction in electricity consumption.
- Use of star rated appliances.
- Green Certifications & Environment Management System Certifications of industrial units, railway stations and other railway establishments.
- Hydrogen fuelled train set pilot project.
- Afforestation for carbon sequestration.
- Eco-friendly waste management of all types of waste such as prevention-reduction-reuse-recycling of waste, proper segregation/collection of waste, installation of Material Recovery Facilities (MRF), fitment of bio-toilets in all passenger coaches, ban on single use plastic etc.
